PCÎ

(30) Priority Data:

9718322.2

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ :		(11) International Publication Number:	WO 99/12335
H04N 5/92	A3	(43) International Publication Date:	11 March 1999 (11.03.99)

GB

(21) International Application Number: PCT/IB98/01287

(22) International Filing Date: 19 August 1998 (19.08.98)

(71) Applicant: KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

30 August 1997 (30.08.97)

(71) Applicant (for SE only): PHILIPS AB [SE/SE]; Kottbygatan 7, Kista, S-164 85 Stockholm (SE).

(72) Inventor: KINGHORN, John, Ritchie; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: ANDREWS, Arthur, S.; Internationaal Octrooibureau B.V., P.O. Box 220, NL-5600 AE Eindhoven (NL).

(81) Designated States: JP, KR, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SF)

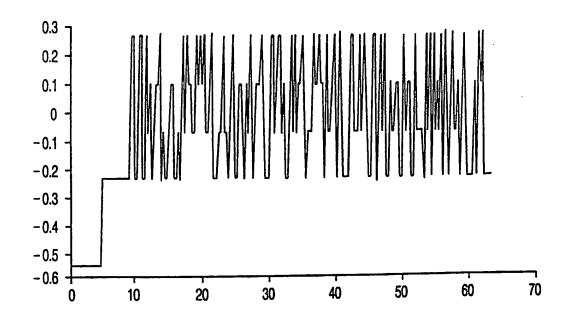
Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(88) Date of publication of the international search report:
27 May 1999 (27.05.99)

(54) Title: VIDEO TAPE AND APPARATUS FOR PLAYING SUCH A VIDEO TAPE



(57) Abstract

A pre-recorded VHS video tape has teletext data multiplexed with the video signal. The teletext data is encoded into a multilevel, for example four level, code at a reduced data rate so that it falls within the bandwith of a VHS recorder. The recorder includes a decoding circuit which takes the multilevel code and converts it to binary data. The binary data is then encoded into standard teletext packets for acquisition by a standard teletext decoder in a TN case. The selectext data is undated as the tape is played so that a given teletext page

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
ΑT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
ΑZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
вв	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav	TM	Turkmenistan
BF	Burkina Faso	GR	Greece		Republic of Macedonia	TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of Americ
CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's	NZ	New Zealand		
CM	Cameroon		Republic of Korea	PL	Poland		
CN	China	KR	Republic of Korea	PT	Portugal		
CU	Cuba	KZ	Kazakstan	RO	Romania		
CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	Ц	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

INTERNATIONAL SEARCH REPORT

1 April 1999

Swedish Patent Office

Name and mailing address of the ISA/

International application No.

PCT/IB 98/01287 A. CLASSIFICATION OF SUBJECT MATTER IPC6: H04N 5/92 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC6: HO4N Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) INSPEC. WPIL. EDOC C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category* X DE 3441152 A1 (GRUNDIG E.M.V. ELEKTRO-MECHANISCHE 1-2 VERSUCHSANSTALT MAX GRUNDIG HOLLÄND. STIFTUNG & CO KG), 28 May 1986 (28.05.86), see whole document 1-2 Y DE 3227373 C1 (GRUNDIG E.M.V. ELEKTRO-MECHANISCHE VERSUCHSANSTALT MAX GRUNDIG & CO KG), 7 July 1983 (07.07.83), abstract 1-2 Y GB 2165083 A (THIBLE TRADING COMPANY LIMITED), 3 April 1986 (03.04.86), see whole document 1-4 EP 0610864 A2 (SONY CORPORATION), 17 August 1994 Α (17.08.94), see whole document See patent family annex. Further documents are listed in the continuation of Box C. later document published after the international filing date or priority Special categories of cited documents: date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive "E" erlier document but published on or after the international filing date document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of another citation or other document of particular relevance: the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is "O" document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination heing obvious to a person skilled in the art document published prior to the international filing date but later than "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 0 8 -04- 1999

Authorized officer

INTERNATIONAL SEARCH REPORT

International application No. PCT/IB 98/01287

		101/10 30/	
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.
P,X	EP 0797354 A1 (PHILIPS ELECTRONICS N.V.), 24 Sept 1997 (24.09.97)		1-2
	 ·	· ··	
•			

INTERNATIONAL SEARCH REPORT

Information on patent family members

02/03/99

International application No.

PCT/IB 98/01287

	atent document I in search repor	t	Publication date		Patent family member(s)		Publication date
DE	3441152	A1	28/05/86	AT EP	49837 0182970		15/02/90 04/06/86
DE	3227373	C1	07/07/83	NON			
GB	2165083	Α	03/04/86	NON	E		
EP	0610864	A2	17/08/94	CA JP US	2115521 6296257 5521712	A	13/08/94 21/10/94 28/05/96
EP	0797354	A1	24/09/97	GB JP	9605614 10013786		00/00/00 16/01/98